Seat No:	Enrollment No:

## PARUL UNIVERSITY

## **COLLEGE OF AGRICULTURE**

B.Sc.(Hons.) Agriculture Summer 2017 - 18 Examination Semester: 4 Date: 25/05/2018 **Subject Code: 20106251** Time: 10:30 am to 01:00 pm **Subject Name: Protected Cultivation and Post Harvest Technology Total Marks: 60** Instructions 1. All questions are compulsory. 2. Figures to the right indicate full marks. 3. Make suitable assumptions wherever necessary. 4. Start new question on new page. Q.1 Do as Directed. A. Fill in the blanks. (Each of 1.00 marks) (10)1. In \_\_\_\_\_\_ treatment commodity is passed below a shower of diluted chemical. 2. The unit for measuring radiation dose is 3. \_\_\_\_\_\_ is the commonest insect in grains during storage. 4. Full form of FAO is \_\_\_ 5. In technique where the commodity is left in the field itself in a heap under shade for few days. 6. The capacity of the castor sheller cum winnower is \_\_\_\_\_ kg /h 7. In chemical storage principal, \_\_\_\_\_ and \_\_\_\_ chemicals used during storage 8. In sun drying method, a minimum temperature of \_\_\_\_\_ °F and humidity below percent is best for sun drying 9. The light intensity is measured by the international unit known as 10. Vapour heat treatment was developed to the control infections of \_\_\_\_\_\_in fruits before storage. B. Multiple choice type questions. (Each of 1.00 mark) (10)1. Which neutral detergent use at time of washing before storage a) Teapol c) Sandovit b) Indtron d) All of above 2 Nipro fruit wax for \_\_\_\_\_ a) Mango c) Apple b) Grape d) Banana 3 Life span of covering material of high grade rigid is \_\_\_\_\_ years. c) 10 a) 05 b) 15 d) 20 4 Which fruits develop natural fruit wax on their surface at the time of maturity. a) Grapes c) Citrus d) All of above b) Apple 5 Air temperatures above \_\_\_\_\_ are generally not suited for crops in greenhouse. a) 30 c) 35 b) 40 d) 45 6 Which type of designs are used for construction of glass greenhouse a) Lean to type c) Ridge and furrow b) Even span d) All of above 7 Medium scale storage can accommodate up to a tons of stored products. a) 100 c) 200 b) 500 d) 1000 8 In greenhouse, for plant propagation works relative humidity up to\_\_\_\_\_\_% is desirable.

c) 90

d) 95

a) 80 b) 85

	9 If the greenhouse span is greater than or	r equal to	m, truss frames are used.	
	a) 15	c) 20		
	b) 25	d) 30		
	10 The capacity of the maize sheller is motor.		kg of cob/h, if operated by one hp	
	a) 500	c) 350		
	b) 250	d) 200		
Q.2	Do as Directed.	2, _ 2 3		
_	Define the following. (Any five)			(05)
	1. Fumigation			` /
	2. Greenhouse effect			
	3.Combine harvester			
	4. Greenhouse length			
	5. Winnowing			
	6. Concave			
	7. Freeze drying			
B	Answer the following. (Any Five)			(05)
	1. Differentiate: Grading and Sorting			
	2. Greenhouse design depends on which a	spects?		
	3. Write covering material with its life spa	ın.		
	4. Draw the chart of cost in greenhouse.			
	5. Advantages of waxing.			
	6. Write down any two reference book rela	ated to course		
	7. Explain greenhouse ventilation			
0.3	Write short notes. (Any five)			(15)
•	1. Components of greenhouse			()
	2. Fan and pad cooling system with figure			
	3. Explain material use to build frame in g			
	4. Groundnut decorticator with figure	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	5. Explain plant response in greenhouse en	nvironment		
	6. Media preparation in greenhouse			
	or 1.100111 propulation in groomsous			
<b>Q.4</b>	Attempt any Three/Long Questions/Exa	ample		(15)
	1.Explain pre-storage treatment			
	2. What is storage? Write the advantages a	and classificat	ion of storage type.	
	3. Methods of threshing and types of thresh		- · · · · · · · · · · · · · · · · · · ·	
	4. Classification of greenhouse.		<del>-</del>	